



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2001009279 A**(43) Date of publication of application: **16.01.01**

(51) Int. Cl. **B01J 23/58**
B01D 53/94
B01J 32/00
B01J 37/02
F01N 3/08
F01N 3/28

(21) Application number: **11183155**(22) Date of filing: **29.06.99**(71) Applicant: **TOYOTA CENTRAL RES & DEV
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(54) **CATALYST FOR PURIFICATION OF EXHAUST
GAS, ITS PRODUCTION AND METHOD FOR
PURIFYING EXHAUST GAS**

Is facilitated.

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(57) Abstract

PROBLEM TO BE SOLVED: To suppress the sulfur poisoning of an NOx occlusion and reduction type catalyst for the purification of exhaust gas containing titania in the carrier and to further increase the NOx removal rate of the catalyst after long-term use at a high temperature.

SOLUTION: A catalyst supporting layer is composed of a powdery Al₂O₃-TiO₂ carrier obtained by coating the surfaces of alumina particles with independent fine titania particles having ≤ 10 nm particle diameter. Titania has a smaller number of base spots than alumina and is less liable to adsorb SOx. The contact of an NOx storage material with the alumina is suppressed and the interface between the titania and the NOx storage material increases. Since an easily decomposable multiple oxide precursor is formed, the desorption of adsorbed SOx

